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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,230	11/13/2006	Hiroyuki Sato	2006_1547A	7037
513 7590 07/10/2009 WENDEROTH, LIND & PONACK, L.L.P. 1030 15th Street, N.W., Suite 400 East Washington, DC 20005-1503			EXAMINER	
			MESH, GENNADIY	
			ART UNIT	PAPER NUMBER
-			1796	
			MAIL DATE	DELIVERY MODE
			07/10/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/593,230	SATO ET AL.
Office Action Summary	Examiner	Art Unit
	GENNADIY MESH	1796
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING I  - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the maili earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION  .136(a). In no event, however, may a reply be tind  d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>05</u> .  2a)  This action is <b>FINAL</b> . 2b)  Th  3)  Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-9 is/are pending in the application 4a) Of the above claim(s) 9 is/are withdrawn f 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers  9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) acceptable application.	rom consideration. for election requirement.	≣xaminer.
Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre	ction is required if the drawing(s) is ob	jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig  a) All b) Some * c) None of:  1. Certified copies of the priority documer  2. Certified copies of the priority documer  3. Copies of the certified copies of the priority application from the International Bures  * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicati ority documents have been receive au (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 06/06/2008,02/13/2008 and 09/18/2006	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate



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### **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election of Group I, Claims 1-8 in the reply filed on May 1, 2009 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claim 9 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1 6 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by DeProspero (US 3,565,869 reference cited by Applicant)

Regarding Claims 1-6 and 8 DeProspero discloses process for producing polyglycolic acid, substantially free from impurities as residual glycolide - see abstract - by subjecting solid ground particles of polyglycolic acid to heat treatment with heated and dried (moisture and oxygen free) inert gas (see Abstract) at temperature from 20 °C to 190 °C and reduced pressure- see column 3, lines 14 - 34.

Note, that this process meet all limitations of Claim 1, including "wherein a latter period of polymerization is produced with way of solid-phase polymerization and resultant

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aliphatic polyester is subjected to removal of residual ester by release to a gas phase" and Claim 2, because heat treatment perform at temperature below 195°C.

Regarding limitation of Claim 8 related to particle size - see DeProspero column 4, lines 18 - 33.

# Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over DeProspero (US 3,565,869) in view of Yamane et al.(US 2003/0125431).

Discussion with respect to DeProspero (see paragraph 2 above) incorporated herein by reference.

As explained above DeProspero discloses process, wherein polyglycolic acid heat treated with inert gas, but is silent regarding adding heat stabilizer to polyglycolic acid.

Note, that DeProspero pointing out that "polyglycolic acid is thermally unstable and will degrade to unsuitable low molecular weight polymer in a very short time if held at very high temperature" - see column 2, lines 13- 20.

However, Yamane, teach that (see [0021]) "When the method in which heat history is applied to polyglycolic acid and the method in which the heat stabilizer is added to crystalline polyglycolic acid is used in combination, a polyglycolic acid

composition modified in thermal properties and moreover improved in melt stability can be provided".

Therefore, it would be obvious to one of ordinary skill to add heat stabilizer to polyglycolic acid in order to increased thermal stability of the polymer.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to GENNADIY MESH whose telephone number is (571)272-2901. The examiner can normally be reached on 10 a.m - 6 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on (571) 272 1119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Gennadiy Mesh

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Examiner Art Unit 1796

/GM/

/Vasu Jagannathan/ Supervisory Patent Examiner, Art Unit 1796